FOS Molecular Data Science - Timetable

Week 1: O	ctober 19th - 23rd		
10:00 - 11:00	10-19 Introduction to FOS Lecture Introduction to FOS Course Lecture Introduction to Molecular Epidemiology Lecture From SPSS to R	B.T. Heijmans P.E. Slagboom	V4-50
	10-19 Introduction to R Lectures Introduction to R and the Cloud Practical Introduction to R - I: Basics	L. Sinke	
Tue 09:15 - 12:30	Practical Introduction to R - II: Advanced	L. Sinke	V4-50
13:15 - 17:00	Practical Introduction to R - III: Bioconductor		
	10-21 GWAS Lecture Introduction to Genome-wide Analysis Practical Genome-wide Association	M. Beekman	V4-50
13:15 - 17:00	Practical Genome-wide Association		
Thu 09:15 - 12:30	Practical Genome-wide Association	M. Beekman	V4-62
	10-22 RNA Sequencing Lecture Introduction to Transcriptomics Practical Analysis of Expression Data	R. Coutinho de Almeida	
Fri			
	Practical Analysis of Expression Data 10-23 Finding Genes in Practice	R. Coutinho de Almeida	V4-52 V4-56

Week 2:	October	26th -	30th
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10:30 - 11:15 Lecture Finding Functionally Relevant Genes

11:15 - 12:30 Practical Finding Genes in Practice

13:15 - 17:00 Practical Finding Genes in Practice

Mon K	Kaltura + 10-26 Functional Genomics		
09:00 - 10:30 S	Self Study Freedman et al. (2001)	I. Meulenbelt	-
10:30 - 11:30 D	Discussion Freedman et al. (2001)		
11:30 - 12:30 Le	ecture Functional Genomics		
1	0-26 Epigenetics		
13:15 - 14:00 Le	ecture Introduction to the Epigenome	B.T. Heijmans	V2-34
14:00 - 17:00 <i>P</i>	Practical Epigenomics	R. Slieker	

Y. Ramos

13:15 - 14:00 <i>Pr</i> 14:00 - 15:00 <i>Le</i>	ractical Epigenomics	R.Slieker	V4-50
14:00 - 15:00 Le			
	ractical Epigenomics ecture Epigenetics and Prenatal Famine Exposure nterim Evaluation of Participation and Interaction	B.T. Heijmans	
Wed K	altura + 10-28 Metabolomics		
09:45 - 12:30 D	ecture Metabolomics as Biomarkers viscussion Marioni et al. (2016) 0-28 Metabolomics	P.E. Slagboom	-
13:15 - 14:00 Le	ecture Introduction to Metabolomics ractical Metabolomics Data Analysis	M. Beekman E. van den Akker	V4-50
Thu 10	0-29 Clustering		
09:15 - 10:00 Le 10:00 - 12:30 Pr	ecture Clustering ractical Clustering	M. Reinders	V3-18 V3-22
13:15 - 14:00 Le	0-29 Public Databases ecture Exploiting Public Data ractical Using Online Databases	B.T. Heijmans	
Fri K	altura + 10-30 Next Generation Sequencing		
09:00 - 10:00 Le	ecture NGS Technology	Y. Ariyurek	-
11:15 - 12:30 Le 1(ab Tour NGS Technology ecture Exome Sequencing 0-30 Exome Sequencing	I. Meulenbelt Y. Ramos	V4-50
13:15 - 17:00 Pr	ractical Exome Sequencing		
Week 3: Nov	vember 2nd - 6th		
09:15 - 10:00 Le	1-02 Single Cell Sequencing ecture Single Cell Sequencing ractical Single Cell Sequencing - I	A. Mahfouz	V4-50
	ractical Single Cell Sequencing - II ractical Single Cell Sequencing - III	I. Khatri	
Tue 11	1-03 MR and Integrative Omics		
09:15 - 10:30 Le 10:00 - 12:30 Pr	ecture Integrative Analysis and MR ractical Integrative Analysis and MR	B.T. Heijmans	V4-18 V4-22
13:15 - 14:00 Le 14:00 - 15:30 Se	Caltura + 11-03 Animal Models of Ageing ecture Animal Models of Ageing elf Study Animal Models of Ageing viscussion Animal Models of Ageing	V. Raz	-

Wed	11-04 Project		
	Lecture Where Does Research Start? Project Formulation of Hypothesis	P.E. Slagboom B.T. Heijmans I. Meulenbelt	V4-50
13:15 - 17:00	Project Formulation of Hypothesis & Objectives	Medicinaett	
Thu 09:00 - 11:30	Project Proposal		V4-56
11:30 - 12:30	Lecture Directed Acyclic Graphs	B.T. Heijmans	V4-68
13:15 - 17:00	Project Pilot Data		V2-44 V4-30
Fri 09:00 - 12:30	Project Pilot Data		V4-50
13:15 - 17:00	Project Pilot Data		
Wook & N	lovember 9th - 13th		
Mon	lovelliber 9til - 15til		
	Project Pilot Data Project		V3-36
Tue			
09:00 - 12:30	Project Project Synopsis		V4-26
13:15 - 1/:00	Project Project Synopsis		V4-30
Wed 09:00 - 12:30	Project Prepare Presentation		V4-62
13:15 - 17:00	Project Prepare Presentation		
Thu 09:00 - 10:00	Project	P.E. Slagboom	V4-50
	Project Presentations & Defence	B.T. Heijmans	V4-3U
	Project Presentations & Defence Looking Back on the Course	I. Meulenbelt	
Fri			
	Project Peer Discussions Project Presentations & Defence	V4-30 V3-36	V4-46 V3-50
13:15 - 15:00	Reflective Assignment	I. Meulenbelt B.T. Heijmans	V4-62
		D.I. Heljillalis	